

An Updated Bibliography on the Jackknife Method

by

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AN UPDATED BIBLIOGRAPHY ON THE JACKKNIFE METHOD

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*Key Words and Phrases: resampling; bias reduction;
approximate intervals and tests.*

INTRODUCTION

The jackknife is a simple and powerful idea for bias reduction and distribution-free estimation of the variance of an estimator. This method was first introduced by M. Quenouille (1949, 1956) and J.W. Tukey (1958), who realized its importance as an almost universally applicable tool for bias reduction and robust interval estimation. A stream of

research workers have made important contributions to the theory of the jackknife, such as Durbin (1959), Brillinger (1964, 1966a), Miller (1964, 1974a), Gray and Schucany (1972), Gray, Schucany and Watkins (1975), Hinkley (1977b, 1978), Efron and Stein (1981), and Parr (1983b, 1985). An excellent review on the jackknife method is given by Miller (1974c).

In this bibliography we present a list up to early 1986 of the references relevant to the jackknife method. Important review papers on the jackknife are Bissel and Feigson (1975), Miller (1974c, 1978), Gray and Schucany (1972), and Mosteller (1971). Parr and Schucany (1980) have presented an excellent bibliography on the jackknife. The present bibliography contains 158 new references of the papers which have been published since 1980 and are relevant to the jackknife method. Some of these references relate the jackknife to the bootstrap method, von Mises expansions and cross-validation such as Efron (1981a, 1981b, 1982), Frangos and Stone (1984).

A subject classification is added in brackets, mainly intended for a rough indication of the content of the reference in question. From it, one can draw the following conclusions:

- a. The areas of research in which many papers appear are, asymptotic theory of the jackknife, application of the jackknife in sampling theory, point and interval estimation, robustness and the jackknife, estimation in regression models, multivariate analysis, and applications of the jackknife in medicine, ecology, and marketing.

- b. Few papers appear on jackknife estimation in time series, jackknifing stochastic processes, second-order properties of the jackknife and identification of outliers.
- c. Nineteen Ph.D. dissertations and twenty four technical reports have been written on the jackknife method.
- d. Seven research workers have published computer subroutines for calculating the jackknife statistic.

In writing this bibliography I have consulted the Science Citation Index, the Current Index in Statistics, the Statistical Theory and Methods Abstracts and over fifty statistical journals. In addition to this, over eighty letters were written to authors on the jackknife method after 1980, requesting lists of further references.

As a result, many new references have been added to an earlier version of this work and, to the best of my knowledge, this bibliography is essentially complete. The author will greatly appreciate information regarding possible errors and omissions in this work.

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Table 1 gives the number of references in intervals of 5 years.

TABLE 1
Classification of references by year

Time Interval	No. of References
pre-1960	4
1960 - 1964	9
1965 - 1969	27
1970 - 1974	54
1975 - 1979	116
1980 - 1986	158
	368

All the references have been categorized according to their contents. The following is a list of the categories:

1. Theory
 - 1.1 Properties
 - 1.1.1 Asymptotics(A)
 - 1.1.2 Bias reduction (B)
 - 1.1.3 Interval Estimation(C)
 - 1.1.4 Generalizations (D)
 - 1.1.5 Second-order properties (E)
 - 1.1.6 Robustness (F)
 - 1.2 Relationships
 - 1.2.1 Bootstrap (G)
 - 1.2.2 Cross-validation (H)
 - 1.3 Class of Problems
 - 1.3.1 Maximum Likelihood Estimates (J)
 - 1.3.2 Regression Coefficients (K)
 - 1.3.3 Correlation Coefficients (L)
 - 1.3.4 U-Statistics (M)
 - 1.3.5 Stochastic Processes and Time Series (N)
 - 1.3.6 Censored data (O)
 - 1.3.7 Sampling (P)
 - 1.3.8 Multivariate (Q)
 - 1.3.9 Outliers (R)
2. Application Areas
 - 2.1 Medicine (2A)
 - 2.2 Education (2B)
 - 2.3 Market Research (2C)
 - 2.4 Reliability (2D)
 - 2.5 Ecology (2E)

3. Miscellaneous

- 3.1 Review Papers (3A)
- 3.2 Computer Routines (3B)
- 3.3 Ph.D. Dissertations (3C)
- 3.4 Technical Reports

A listing of the references within these categories follows the alphabetically arranged Bibliography.

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1. THEORY
 - 1.1 Properties
 - 1.1.1 Asymptotics (A)

Adams, Gray and Watkins (1971)

Akahira (1983, 1985)

Akahira and Takeuchi (1981)

Arvesen (1969b)

Brillinger (1964)

Cheng (1981, 1983)

Cox (1975)

Cox and Hinkley (1974)

Gray, Coberly and Lewis (1975)

Gray and Schucany (1972)

Gray, Watkins and Adams (1972)

Gray, Schucany and Watkins (1975)

Hartigan (1969, 1971, 1975)

Hinkley (1977, 1978)

Hinkley and Wei (1984b)

Karlin and Rinott (1982)

Kokic and Weber (1983)

Mallows (1972)

Miller (1964, 1968, 1974a)

Nagao (1984, 1985)

Parr (1983a, 1983b, 1983c, 1985)

Phillips (1980)

Quenouille (1949, 1956)

Reeds (1976, 1978)

Schucany (1970)

Schucany, Gray and Owen (1971)

Schucany and Sommers (1977)

Schucany and Woodward (1977)

Sen (1977a, 1981, 1986c, 1986d)

Thorburn (1975, 1976, 1977)

Tukey (1958)
 - 1.1.2 Bias Reduction (B)

Adams, Gray and Watkins (1971)

Cressie (1981)

Deming (1963)

Durbin (1959)

Dynin (1985)

Folks and Chhikara (1978)

Gray (1975)

Gray, Watkins and Schucany (1973)

Gray (1975)

Hall (1983)

Kendall and Stuart (1973)

Koop (1976)

Lin (1985)

Mosteller and Tukey (1968)

Olkin (1978)

Quenouille (1956)

Rey (1975a)

Robson and Whitlock (1964)

Rustagi and Dynin (1983)

Sath and Varde (1969)

Schucany (1970)

Schucany, Gray and Owen (1971)

Schucany and Sommers (1977)

Sen (1977b, 1981b)

Williams (1962)

Woo and Kang (1984)

Woo and Marcus (1979b)

Woodward and Gray (1975)
 - 1.1.3 Interval Estimation (C)

Arvesen and Salsburg (1973)

Arvesen and Layard (1975)
 - 1.1.2 Generalizations (D)

Adams and McCune (1979)

Gray and Schucany (1972)

Gray, Watkins and Adams (1972)

Gray, Schucany and Watkins (1975)
 - 1.1.4 Generalizations (D)

Adams and McCune (1979)

Gray and Schucany (1972)

Gray, Watkins and Adams (1972)

Gray, Schucany and Watkins (1975)
- 1.1.5 Second-order Properties (E)

Akahira (1983, 1985)

Frangos (1980a, 1980b, 1981b, 1981c)

Hampel (1974)

Hinkley (1978)

Hinkley and Wang (1980)

Jaekel (1972)

Karlin and Rinott (1982)

Knott and Frangos (1982b, 1983)

Lepretre (1979)

Parr (1983c, 1985)

Rao and Wu (1985b)

Wang and Hinkley (1979)
- 1.1.6 Robustness (F)

Andrews (1974)

Andrews et al. (1972)

Arvesen and Schmitz (1970)

Arvesen and Layard (1975)

Braun (1975)

Brown and Forsythe (1974)

Burnham and Overton (1979)

Carroll (1979)

Cheng (1982a, 1982b)

Cox and Hinkley (1974)

Devlin, Gnanadesikan and Kettenring (1975)

Frangos (1985)

Gross (1976)

Hampel (1974)
- 1.1.5 Second-order Properties (E)

Akahira (1983, 1985)

Frangos (1980a, 1980b, 1981b, 1981c)

Hampel (1974)

Hinkley (1978)

Hinkley and Wang (1980)

Jaekel (1972)

Karlin and Rinott (1982)

Knott and Frangos (1982b, 1983)

Lepretre (1979)

Parr (1983c, 1985)

Rao and Wu (1985b)

Wang and Hinkley (1979)
- 1.1.6 Robustness (F)

Andrews (1974)

Andrews et al. (1972)

Arvesen and Schmitz (1970)

Arvesen and Layard (1975)

Braun (1975)

Brown and Forsythe (1974)

Burnham and Overton (1979)

Carroll (1979)

Cheng (1982a, 1982b)

Cox and Hinkley (1974)

Devlin, Gnanadesikan and Kettenring (1975)

Frangos (1985)

Gross (1976)

Hampel (1974)

- Hill (1977)
Hinkley and Wang (1980)
Hogg (1979)
Huber (1972, 1977, 1981)
Jaekel (1972)
Johnson (1978)
Layard (1973)
Mallows (1974)
Mantel (1967)
Maritz (1979)
Martin and Games (1977)
Morineau (1978)
Parr and Schucany (1980b, 1982a)
Reeds (1976)
Wang and Hinkley (1979)
Rey (1974, 1978, 1979, 1983)
Rocke and Downs (1981)
Sen (1984a)
Shao and Wu (1985)
Swanepoel (1983)
Wainer (1976)
Wang and Hinkley (1979)
Ypelaar and Velleman (1977)
- 1.2 Relationships
1.2.1 Bootstrap (G)
Beran (1982)
Buckland (1983)
Chatterjee, S. and Chatterjee, S. (1983)
Efron (1979a, 1979b, 1981a, 1981b, 1982, 1984, 1985)
Efron and Stein (1981)
Efron and Gong (1983)
Efron and Tibshirani (1985)
Frangos and Stone (1984)
Gong (1982a)
Knott and Frangos (1982a)
Low (1983)
- Mallows and Tukey (1982)
Oldford (1985)
Parr (1983b)
Policello (1985)
Rao and Wu (1985a)
Rocke and Downs (1981)
Wu (1986)
- 1.2.2 Cross-validation (H)
Chow, Geman and Wu (1983)
Efron (1982, 1983)
Frangos and Gong (1983)
Frangos and Stone (1984)
Gong (1982)
Kleijnen (1983)
Jennrich (1980)
Reeds (1978)
Stone (1974)
- 1.3 Classes of Problems
1.3.1 Maximum Likelihood Estimates (J)
Abeyasekera and Collet (1982)
Anderson and Ray (1975)
Best and Fisher (1981)
Brillinger (1964)
Ferguson and Fryer (1974)
Fryer (1970)
Jennrich (1980)
Reeds (1978)
Watkins and Kern (1973)
- 1.3.2 Regression Coefficients (K)
Anderson (1975)
Arvesen and Schmitz (1970)
Arvesen and Layard (1975)
Carroll (1979)
- Duncan and Layard (1973)
Efron (1981b)
Fisher and Lee (1983)
Hinkley (1978)
Palachek and Schucany (1983, 1984)
Quenouille (1949)
Rogers (1976)
- 1.3.4 U-Statistics (M)
Arvesen (1969a, b)
Athreya et al. (1984)
Callaert and Veraverbeke (1981)
Ghosh (1985)
Helmert (1985)
Krewski (1978a)
Lee (1985)
Lenth (1983)
Majumdar and Sen (1978)
Mantel (1967)
Palachek and Schucany (1982)
Sen (1980, 1982, 1984b)
Sen and Ghosh (1981a)
Vandemaële et al. (1985)
- 1.3.5 Stochastic Processes and Time Series (N)
Adams (1971)
Burt, Gaver and Perlas (1970)
Davis (1977, 1979)
Gaver and Hoel (1970)
Gray and Schucany (1972)
Kokic and Weber (1983)
Rey (1974)
Watkins (1971)
- 1.3.6 Censored Data (O)
Gaver and Miller (1983)
Miller (1974b)
- Damkoehler (1966)
Deming (1963)
Duncan (1978)
Farewell (1978)
Fox, Hinkley and Larnz (1980)
Frangos (1981a, 1981b)
Gnanadesikan and Kettenring (1972)
Herzberg and Tsukanov (1985)
Hinkley (1977b)
Hobbs, Chilko, Billings, King and Hsieh (1980)
Huber (1977)
Kelly (1984)
Knott and Frangos (1982a)
Lindell (1979)
Mackinnon and White (1985)
Mikhail (1975)
Miller (1974a)
Nagao (1984)
Nokkert (1985)
O'Brien (1979)
Phillips (1977, 1980)
Phillips and McCabe (1984)
Polzehl (1985)
Rao, J.N.K. (1969)
Reed and Wu (1977)
Rice (1984)
Shao and Wu (1985)
Weber (1984, 1986)
Weber and Welsh (1983)
Wu (1985, 1986)
Ypelaar and Velleman (1977)
Zwanzig (1985)
- 1.3.3 Correlation Coefficients (L)
Ayabe (1985)
Devlin, Gnanadesikan and Kettenring (1975)

- Patterson and Smith (1985)
 Rey (1975b)
 Rey and Martin (1975)
 Rustagi and Dynin (1985)
- 1.3.7 Sampling (P)
 Brillinger (1977)
 Chakrabarty and Rao (1968)
 Chao (1984)
 Cochran (1977)
 Durbin (1959)
 Fay (1985)
 Frome and Hudson (1979)
 Frost and Tamura (1982)
 Hislop and Lemeshow (1977)
 Hutchison (1971)
 Jones (1974)
 Kish and Frankel (1974)
 Koop (1976)
 Krewski (1978a, 1978b)
 Krewski and Chakrabarty (1981a)
 Krewski and Rao (1978c, 1979, 1981b)
 Lemeshow and Levy (1978)
 Lemeshow, Hosmer and Hilsop (1980)
 Lemeshow and Stoddard (1984)
 Majumdar and Sen (1978)
 Pascual and Nieto (1961)
 Rao, J.N.K. (1965, 1969)
 Rao and Beegle (1967)
 Rao and Webster (1966)
 Rao and Wu (1985a, 1985b)
 Rao, P.S.R.S. (1969, 1974, 1978)
 Rao, P.S.R.S. and Rao, J.N.K. (1970)
 Rochon and Kalsbeek (1983)
 Royall and Cumberland (1978, 1981)
 Sen (1986a, 1985)
- Shah (1978)
 Shorack (1969)
 Srivenkataramana (1980)
 Tin (1965)
 Wu and Deng (1983)
 Wu (1985)
- 1.3.8 Multivariate (Q)
 Aitchison and Aitken (1976)
 Brooks et al. (1978)
 Carroll (1978)
 Chatterjee, S. and Chatterjee, S. (1983)
 Clarkson (1979)
 Cochran (1968)
 Das Gupta (1968)
 Dempster (1966)
 DiPillo (1977)
 Gnanadesikan and Wilk (1969)
 Greenacre (1984)
 Habbema, Hermans and van der Broek (1974)
 Habbema and Hermans (1977)
 Izenman (1975)
 Jennrich (1980)
 Kshirsagar (1972)
 Lachenbruch (1968)
 Lachenbruch and Mickey (1968)
 Landwehr (1972)
 Layard (1972)
 Mosteller and Wallace (1963)
 Nagao (1985)
 Pennel (1972)
 Rao and Dorvlo (1985)
- 1.3.9 Outliers (R)
 Atkinson (1981, 1982)
 Cook (1977, 1979)
- Cook and Weisberg (1980, 1982)
 Devlin, Gnanadesikan and Kettenring (1975)
 Gnanadesikan and Kettenring (1972)
 Woo and Marcus (1979a)
2. APPLICATION AREAS
 2.1 Medicine (2A)
 Breslow and Liang (1982)
 Brooks et al. (1978)
 Damkoehler (1966)
 Elashoff (1981)
 Fagerstrom, Smith, Sacks and Cohen (1981)
 Fleiss and Davies (1982)
 Frawley (1974)
 Frome and Hudson (1979)
 Games, Keselman and Jennifer (1979)
 Gladen (1979)
 Jewell (1984)
 Krewski and Kovar (1982)
 Mueller (1979)
 Nimmo and Bauermela (1981)
 Oppenheimer, Capizzi and Mpwa (1981)
 Paul (1982)
 Salsburg (1971)
- 2.2 Education (2B)
 Egman, Meyers and Bendal (1973)
 Huynh (1980)
 Krzanowski et al. (1985)
 Salsburg (1975)
 Wainer and Wright (1980)
 Ypeelaar (1978)
- 2.3 Market Research (2C)
 Brillinger (1966a)
- Chatterjee and Barcum (1970)
 Fenwick (1979)
 Frost and Tamura (1982)
 Sundt (1982)
 Woodward and Schucany (1977)
 Zehnirith (1981)
- 2.4 Reliability (2D)
 Cheng and Chao (1984)
 Gaver (1977)
 Gaver and Chu (1977, 1979)
 Sath and Varde (1969)
 Sen (1985)
 Sen and Bhattacharjee (1985)
- 2.5 Ecology (2E)
 Adams and McCune (1979)
 Bissel (1973)
 Buckland (1982)
 Burnham and Overton (1978, 1979)
 Burnham (1972, 1984)
 Collins (1970)
 Elashoff (1981)
 Gregoire (1984)
 Heltshe and Bitz (1979)
 Heltshe and Forrester (1983a, 1983b, 1985)
 Heltshe and Ritchey (1984)
 Higgins, Bendel and Mack (1984)
 Kraemer (1980, 1981)
 McMahon (1981)
 Mueller and Altenberg (1985)
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